

CLAIMS

1. A method of indicating the status of a download for display on a receiving device during a wireless data transfer comprising a plurality of packets between a sending device and the receiving device, the method being **characterized in that** a plurality of status indicators are transmitted with the data packets associated with the data transfer.
2. A method according to claim 1 wherein the packets are further comprised of a plurality of packet headers and data packets defined in accordance with a transfer protocol, whereby the method is further **characterized in that** the download status indicators are transmitted within the packet headers of the data transfer.
3. A method according to claim 2 **characterized in that** the download status indicators are sent within a frame of packet headers in a field configuration that includes an operation code field used to identify the packet, an application parameters field containing a download status indicator picture, and a data field that includes the data for the data transfer.
4. A method according to any of the preceding claims further **characterized in that** the application parameters field includes a Progress Stamp for indicating the amount of data successfully downloaded, a Validity Period for indicating the period of time the status indicator is valid, and the picture data for the download status indicator.
5. A method according to any of the preceding claims **characterized in that** the sending device transmits data to a plurality of receiving devices in a Kiosk environment.
6. A method according to any of the preceding claims **characterized in that** the download status indicator transmitted to the receiving device is displayed in the form of a progress bar that expands to accurately reflect the percentage of data successfully downloaded.

7. A method according any of the preceding claims **characterized in that** the sending device collects statistics on data transfers with receiving devices for use in developing predictive models for calculating estimates for the download status indicator.

5 8. A method according any of the preceding claims **characterized in that** a Bluetooth Kiosk environment comprising a sending device performs the wireless data transfer to a plurality of receiving devices using the Object Exchange (OBEX) protocol.

10 9. A system for sending a download status indicator depicting the download status of a data transfer, the system comprises:

a sending device for transmitting data;

a receiving device for receiving data from the sending device;

a collector for collecting statistical parameters of data transfers between the sending device and the receiving device;

15 an analyzer for analyzing the statistical parameters for use in developing predictive models for calculating estimates for the download status indicator; and

a transmitter for sending the download status indicator from the sending device to the receiving device for display on the receiving device.

20 10. A system according to claim 9 wherein, the system sending device and the receiving device are configured in Master-Slave hierarchical relationship whereby the sending device is the Master and the receiving device is the Slave.

11. A system according to claim 10 wherein, the sending device is an information Kiosk for disseminating data and the receiving device is wireless handheld device with a graphics capable display.

12. A system according to any of the preceding claims wherein, the collection and analyzing means are contained within the hardware structure of the sending device.
13. A system according to any of the preceding claims wherein, the statistical parameters are kept in an activity log containing information related to previous data transfers by occurring for a time of day, a day of week, and a time of month.
14. A system according to claim 9 wherein, the download status indicator is in a picture format such as JPG, JPG2000, GIF, PNG, TIF, EXIF or AVI.
15. A system according to claim 11 wherein, the download status indicator is displayed on the wireless handheld device in the form of an progress bar.